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WORK UNIT NO: A53411-20A
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NAVAL AIR TEST CENTER REPORT OF TEST RESULTS

FROM

Commander, Naval Air Test Center, Patuxent River, Maryland 20670

TO

Commander, Naval Air Systems Command, Washington, D. C. 20361

AIRTASK

A510-5103/0532/
6244-000265

WORK UNIT

A53411-20A

AIRCRAFT BUNO

REPORT SEQUENCE UNDER WORK UNIT

Twenty-Third Interim Report

EFFORT LEVEL

Normal

TITLE

Test of Organizational and Intermediate Level Ground Support Equipment (GSE) Peculiar to the S-3A Aircraft and Its Associated Systems and Equipment; Sixteenth Interim Report

DATES OF TESTS

11 February - 2 March 1976

LOCATION OF TESTS

NAVAIRTESTCEN

COGNIZANT NAVAIRSYSCOM DIVISION

AIR-534/AIR-510/AIR-417

NATC PROJECT OFFICER/ENGINEER

Mr. C. Korchek

NATC DIVISION

Systems Engineering

COGNIZANT NAVAIRSYSCOM ENGINEER

Mr. Paul/CDR Kraft/LCDR Salo

ENCLOSURES

(1) Equipment Listing

Ref: (a) S-3A Approved Support Equipment List (SEL) of 26 Feb 1976

INTRODUCTION

1. In accordance with the AIRTASK/Work Unit, seven items of Intermediate level Peculiar Ground Support Equipment (PGSE) approved for the S-3A airplane (reference (a)) and described in enclosure (1) were evaluated to verify their suitability and supportability.

CONCLUSIONS

2. Each item of PGSE described in enclosure (1) is suitable and supportable without modification.

RECOMMENDATIONS

3. Accept each item of PGSE described in enclosure (1) for use at the applicable level of maintenance.


C. G. BERTHE, JR.
By direction

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Part I indicates a deficiency, the correction of which is necessary because it adversely affects:

- a. Airworthiness of the aircraft.
- b. The ability of the aircraft (or piece of equipment) to accomplish its primary or secondary mission (or intended use).
- c. The effectiveness of the crew as an essential subsystem.
- d. The safety of the crew or the integrity of an essential subsystem. In this regard, a real likelihood of injury or damage must exist. Remote possibilities or unlikely sequences of events shall not be used as a basis for safety items.

Part II indicates a deficiency of lesser severity than a Part I which does not substantially reduce the ability of the aircraft or piece of equipment to accomplish its primary or secondary mission, but the correction of which will result in significant improvement in the effectiveness, reliability, maintainability, or safety of the aircraft or equipment. A Part II deficiency is a deficiency which either degrades the capabilities of the aircraft or equipment or requires significant operator compensation to achieve the desired level of performance; however, the aircraft or equipment being tested is still capable of accomplishing its mission with a satisfactory degree of safety and effectiveness.

Part III indicates a deficiency which is minor or slightly unpleasant or appears too impractical or uneconomical to correct in this model, but should be avoided in future designs.

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EQUIPMENT LISTING

| Nomenclature (reference (a)) | Applicable Maintenance Level | Intended Use |
|--|------------------------------------|--|
| Assembly Tool, Wrench Solenoid Case P/N AT205313 Item 0122 | Intermediate | This Assembly Tool is used to remove or install the Berteau series 205720 and 205760 solenoid valve covers from or into the aircraft actuator solenoid valves. |
| Kit, Installation and Removal, Steller check valve, 5/8 inch P/N KM19 Item 0131 | Intermediate | This Kit is used to remove or install the Steller series S3074 hydraulic check valve from or into the aircraft hydraulic components. |
| Kit, Installation and Removal, Gar Kenyon restrictor valve, 1/4 inch P/N KM-18 Item 0136 | Intermediate | This Kit is used to remove or install the Gar Kenyon series 2RO141 hydraulic restrictor valve from or into the aircraft components. |
| Valve Plate, Hydraulic Shut-Off Valve P/N BB71-101 Item 0228 | Intermediate | This Valve Plate provides an interface between either the inlet or outlet port of the AV 16A1327 valve and a hydraulic pressure source when functional testing of the valve is performed. |
| Adapter Set, Hydraulic Pump Test P/N BD83-101 Item 0281 | Intermediate | This Adapter Set is used to hold the hydraulic pump (P/N 394626) in a shop vise for the purpose of measuring the torque necessary to rotate the pump shaft, removal and replacement of Rosan adapters, and removal and replacement of pump spline seals. |

| Nomenclature (reference (a)) | Applicable Maintenance Level | Intended Use |
|--|------------------------------------|---|
| Fixture, Reservoir Support P/N BD85-101 Item 0282 | Intermediate | This Fixture is used to support the 5.8 gallon and 1.4 gallon hydraulic reservoirs during the performance of maintenance actions. |
| Test Block, Retractor P/N 1306173-101 Item 0639 | Intermediate | This Test Block is used as a restraining device when performing a pull test on the mad boom cable retractor assembly (P/N 1202378-101) harness. |